Troubleshooting

Symptom	Troubleshooting Steps
The PoE Injector does not power on	**1.** Verify the AC power adapter and cord is not frayed, broken or damaged in any way. **2.** Verify the voltage at the wall outlet is between 100 and 240 volts AC. **3.** Remove and re-appy power to the device and check the indicators during powering up.
The powered device does not operate	**1.** Verify that the PoE Injector detects a device plugged into the DATA & POWER OUT port. **2.** Verify that the device you are attempting to power is designed for operation via PoE. **3.** Verify that you are using standard Category 5 cable that is undamaged. **4.** Verify that the Ethernet cable being used is not wired for cross-over operation. **5.** If using an external power splitter, replace it with another splitter you know to be functional. **6.** Remove and reinsert the Ethernet cables. **7.** Attempt to use another GPI-130 unit to power the device. If it becomes operational, the first unit is likely damaged or faulty.
The powered devices operates, but there is no data connection	**1.** Verify that the port indicator on the front panel of the PoE Injector is continuously lit. **2.** If using an external power splitter, replace it with another power splitter you know to be functional. **3.** Verify that you are using a standard Category 5 cable for this link. **4.** Verify that the length of the Ethernet cable being used is less than 100m in length. **5.** Attempt to use another GPI-130 unit to operate the device. If a data connection is successful, the first unit is likely damaged or faulty.

The following Fortinet web pages provide information and resources for your Fortinet product:

Customer Service & Support: https://support.fortinet.com
Technical Documentation: http://docs.fortinet.com
Knowledge Base: http://kb.fortinet.com
Training Services: http://training.fortinet.com
End User License Agreement: http://docs.fortinet.com/eula/EULA.pdf

Comments on Technical Documentation
Please report errors or omissions to: techdoc@fortinet.com.

Safety Information

The GPI-130 should be connected to PoE networks only, without routing through exterior areas.

Ensure only qualified personnel install or remove the GPI-130.

AC Power cord Set:

- The power cord must have regulatory agency approval for the specific country in which it is used (for example UL, CSA, VDE, etc.).
- The power cord must be a three-conductor type (two current carrying; one ground) terminated on one end by an IEC 60320 appliance coupler (for connection to the GPI-130), and on the other end by a plug containing a ground contact.
- The power cord must be rated for a minimum of 250V AC RMS operation, with a minimum rated current capacity of 5 amperes, or a minimum wire gauge of 18AWG.

A GPI-130 installed in Australia requires power cords with a minimum wire gauge of 16 AWG.

The GPI-130 *Data In* and *Data & Power Out* ports are shielded RJ45 data sockets. They cannot be used as Plain Old Telephone Service (POTS) telephone sockets. Only RJ45 data connectors can be connected to these sockets.

- The AC wall socket-outlet must be near the GPI-130 and easily accessible. You can remove AC power from the GPI-130 by disconnecting the AC power cord from either the wall socket-outlet or the GPI-130 appliance coupler.
- The GPI-130 *Data In* and *Data & Power Out* interfaces are qualified as Safety Extra-Low Voltage (SELV) circuits according to IEC 60950-1. These interfaces can only be connected to SELV interfaces on other equipment.

WARNINGS!

- The GPI-130 relies on your building's installation for short-circuit protection. Ensure that a fuse or circuit breaker rated for no more than 120VAC, 3A (240VAC, 1.5A for international installations) is used.
- Read the installation instructions before connecting the GPI-130 to its power source.
- Follow basic electricity safety measures whenever connecting the GPI-130 to its power source.
- A voltage mismatch can cause equipment damage and may pose a fire hazard. If the voltage indicated on the label is different from the power outlet voltage, do not connect the GPI-130 to this power outlet.

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QuickStart Guide

GPI-130 Gigabit PoE Injector

Model Number	GPI-130
Input Voltage	100-240V AC (50/60Hz)
Maximum Input Current	0.8 Ampere
Available Output Power (Max.)	30 Watts
Nominal Output Voltage	55V DC

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Introduction

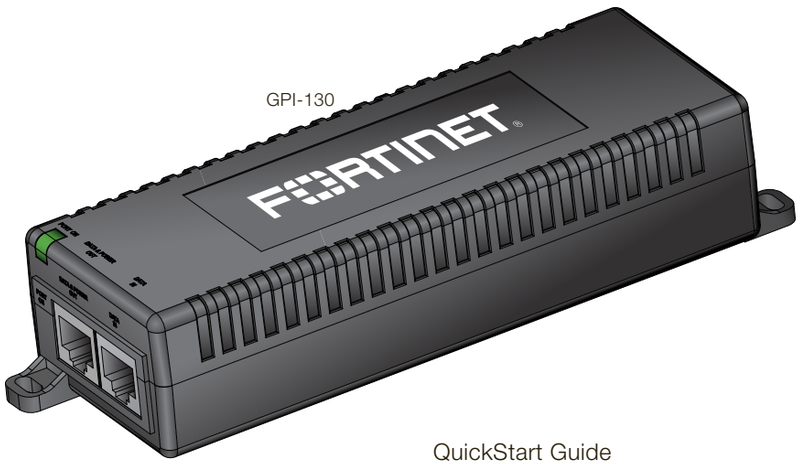
The Fortinet GPI-130 Power over Ethernet (PoE) Injector offers a compact and cost-effective IEEE 802.3af compliant power solution for IP telephony, wireless access points, network cameras and other IP-based hardware installations. The unit provides pass through data rates of up to 1000Mbps (Gigabit Ethernet).

The GPI-130 converts AC voltage to 55V DC voltage, which is then provided over an Ethernet cable.

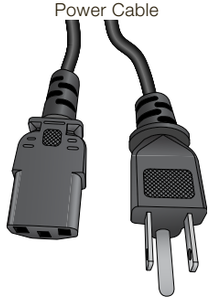
The unit can be powered via any AC input, and provides up to 30W of power for your devices.

Package Contents

GPI-130 Gigabit PoE Injector
Power Cable
QuickStart Guide



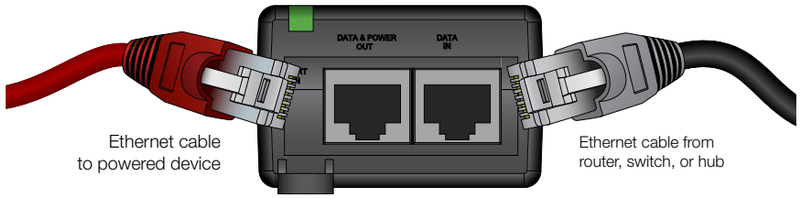
Power Cable



QuickStart Guide

Installation

1. Connect the power cable to the PoE Injector.
2. Connect a straight-through Ethernet cable from your router, switch or hub to the DATA IN port.
3. Connect a straight-through Ethernet cable from the device you wish to power to the DATA & POWER OUT port.



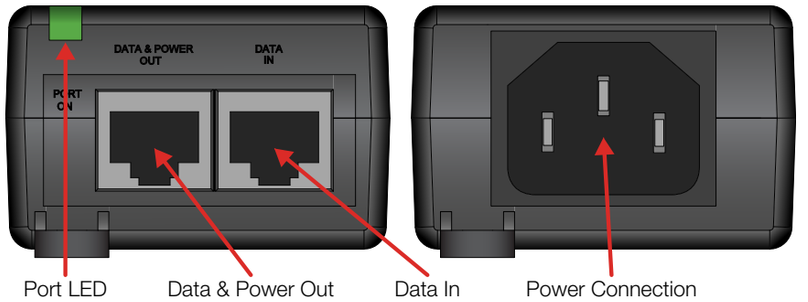
Caution: Do not connect a cross-over Ethernet cable to this device. Doing so could cause dangerous overloads or short-circuits as well as physically damaging both the PoE Injector and your device.

Do not cover or block airflow to the device with any other objects. Keep the unit away from excessive heat, moisture and humidity. Ensure the unit remains free from vibration and dust.

Ensure the length of the Ethernet cable from the PoE Injector to the powered device does not exceed 100m (330 ft.). The PoE Injector does not function as an Ethernet repeater and will not amplify the data signal.

There is no power switch on this unit - simply plug the unit into any AC power source.

Technical Specifications



LED	State	Description
Port LED	Amber	The PoE injector is powered on.
	Green	A device is connected to the PoE injector.
	Flashing Green	Overload state or short-circuit.

Port	Description
Data Input Interface	RJ45 port with 10/100/1000Mbps (Gigabit Ethernet)
Data Output Interface	RJ45 port with 10/100/1000Mbps (Gigabit Ethernet) and 55V DC on wire pairs 4-5 (+) and 7-8 (-)
Power	AC power connection